AS A BELOW NAMED INVENTOR, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe that I am the original, first and sole (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below), of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE:

MULTI-BIT PHASE CHANGE MEMORY CELL AND MULTI-BIT PHASE CHANGE MEMORY INCLUDING THE SAME, METHOD OF FORMING A MULTI-BIT PHASE CHANGE MEMORY, AND METHOD OF PROGRAMMING A MULTI-BIT PHASE CHANGE MEMORY

the specification of which either is atta	ached hereto or indicates an attorney docke	et no. YOR920030368US1 (8/28-643)
us filed in the U.S. Patent & Trad	lemark Office on and assi	gned Serial No,
and (if applicable) was amended o	n	,
as amended by any amendment referred and to the examination of this applicat foreign priority benefits under Title 35 certificate, or §365(a) of any PCT inte	I to above. I acknowledge the duty to disclostion in accordance with Title 37 of the Code 5, U.S. Code §119(a)-(d) or §365(b) of any mational application which designated at I elow any foreign applications for patent or its content of the content	e-identified specification, including the claims, is information which is material to patentability of Federal Regulations §1.56. I hereby claim foreign application(s) for patent or inventors east one country other than the United States, inventors certificate having a filing date before
(Application Number)	(Country)	(Day/Month/Year filed)
(Application Number)	(Country)	(Day/Month/Year filed)
States provisional application(s), or §3 insofar as the subject matter of each of t	65(c) of any PCT International application of the claims of this application is not disclosed	States application(s), or §119(e) of any United designating the United States, listed below and, I in the prior United States or PCT International de. §112. Lacknowledge the duty to disclose

information material to patentability as defined in Title 37, The Code of Federal Regulations, §1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial Number)	(Filing Date)	(STATUS: patented, pending, abandoned)
(Application Serial Number)	(Filing Date)	(STATUS: patented, pending, abandoned)

I hereby appoint the following attorneys: MANNY W. SCHECTER, Reg. No. 31,722; KEVIN M. JORDAN, Reg. No. 40,277; CHRISTOPHER A. HUGHES, Reg. No. 26,914; JOHN E. HOEL, Reg. No. 26,279; JOSEPH C. REDMOND, Jr., Reg. No. 18,753; RICHARD M. LUDWIN, Reg. No. 33,010; DOUGLAS W. CAMERON, Reg. No. 31,596; WAN YEE CHEUNG, Reg. No. 42,410; THU ANN DANG, Reg. No. 41,544; TIMOTHY M. FARRELL, Reg. No. 37,321; LOUIS P. HERZBERG, Reg. No. 41,500; DEREK S. JENNINGS, Reg. No. 41,473; STEPHEN C. KAUFMAN, Reg. No.29,551; ALISON D. MORTINGER, Reg. No. 39,306; DANIEL P. MORRIS, Reg. No. 32,053; LOUIS J. PERCELLO, Reg. No. 33,206; ROBERT M. TREPP, Reg. No. 25,933; GAIL ZARICK, Reg. No. 43,303; and each of them of INTERNATIONAL BUSINESS MACHINES CORPORATION, Thomas J. Watson Research Center, P.O. Box 218, Yorktown Heights, New York 10598; to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith and with any divisional, continuation, continuation-in-part, reissue or re-examination application, with full power of appointment and with full power to substitute an associate attorney or agent, and to receive all patents which may issue thereon, and request that all correspondence be addressed to:

> Frank Chau, Esq. F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike, Suite 501 East Meadow, New York 11554

Tel.: 516-357-0091

I HEREBY DECLARE that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 U.S. Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIR	Citizenship <u>GERMANY</u>	
Inventor's signature: _	Hendrik F. Haman	Date: 11/18/2003
Residence:	Yorktown Heights, New York 10598	
Post Office Address:	1552 Central Street Yorktown Heights, New York 10598	
	COND INVENTOR: Chung Hon LAM	Citizenship <u>USA</u> Date: 1 1/18/2003
Inventor's signature:	Chung Hon Jam	Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Residence:	Willistion, Vermont 05495	
Post Office Address:	61 Aster Lane Willistion, Vermont 05495	
	RD INVENTOR: Michelle Leigh STEEN	Citizenship USA
Inventor's signature: _	Manife Can dell	Date: 11/19/03
Residence:	Danbury, Connecticut 06811	, ,
Post Office Address:	1906 Eaton Court Danbury, Connecticut 06811	
·		
FULL NAME OF FIF	TH INVENTOR: Hon-Sum Philip Wong	Citizenship USA
Inventor's signature: _	fton-Smi Mily Way	Date: \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
Residence:	Chappaqua, New York, 10514	
Rost Office Address:	15 Valley View Road Chappaqua, New York 10514	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Hendrik F. Hamann, Chung Hon Lam, Michelle Leigh Steen,

Hon-Sum Philip Wong

SERIAL NO.:

Unassigned

FILED:

Concurrently herewith

FOR:

MULTI-BIT PHASE CHANGE MEMORY CELL AND MULTI-BIT PHASE CHANGE MEMORY INCLUDING THE SAME, METHOD OF FORMING A MULTI-PHASE

CHANGE MEMORY, AND METHOD OF

PROGRAMMING A MULTI-BIT PHASE CHANGE

MEMORY

ASSOCIATE POWER OF ATTORNEY

Please recognize FRANK CHAU, Reg. No. 34,136; FRANK V. DeROSA, Reg. No. 43,584; NATHANIEL T. WALLACE, Reg. No. 48,909; ERIC M. PARHAM, Reg No. 45,747; THOMAS W. McNALLY, Reg. No. 48,609; MICHAEL F. MORANO, Reg. No. 44,952; and BENJAMIN M. HALPERN, Reg. No. 46,494; each of them of F. CHAU & ASSOCIATES, LLP, 1900 Hempstead Turnpike, Suite 501, East Meadow, New York 11554 as associate attorneys in the above-mentioned application, with full power to prosecute said application, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith.

Telephone calls should be made to Frank Chau by dialing (516) 357-0091.

All written communications are to be sent to Frank Chau, Esq., F. Chau & Associates, LLP, 1900 Hempstead Turnpike, Suite 501, East Meadow, New York 11554.

International Business Machines
Corporation
T.J. Watson Research Center
Route 134 and Kitchawan Road
Yorktown Heights, New York 10598

Richard M. Zudwin
Registration No. 33,010
Wan Yee Cheung

Registration No. 42,410
Attorney for Applicant(s)